

# URGENT

\*TB 1-2840-241-20-21

## DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

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### FOR ALL OH-58A/C AND H-6 AIRCRAFT WITH T63-A-720 OR 250-C20B ENGINES INSTALLED, ONE TIME INSPECTION OF PRESSURE PROBE ELBOW

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Headquarters, Department of the Army, Washington, D. C.  
24 September 2001

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#### NOTE

THIS PUBLICATION IS EFFECTIVE UNTIL RESCINDED OR  
SUPERSEDED.

1. **Priority Classification.** URGENT.

#### NOTE

IAW AR 95-1, paragraph 6-6a, MACOM commanders may authorize temporary exception from ASAM message/TB requirements. Exception may only occur when combat operations or matter of life or death in civil disasters or other emergencies are so urgent that they override the consequences of continued aircraft operation.

a. **Aircraft in Use.** Upon receipt of the subject message/TB, make the following entry on the DA Form 2408-13-1. Enter a **Red Horizontal Dash //--//** status symbol with the following statement: "Inspect Pressure Probe Elbow IAW OH-58-01-ASAM-04 (TB 1-2840-241-20-21) within the next 100 flight hours, but NLT 28 December 2001." Clear the **Red Horizontal Dash //--//** entry when the procedures IAW para 8 and 9 are completed. The affected aircraft shall be inspected as soon as practical, but no later than 28 Dec 2001. Commanders who are unable to comply with the requirements of the subject message/TB within the time frame specifies will upgrade the affected aircraft status symbol to a **Red X**.

b. **Aircraft in Maintenance Facility.**

(1) **Aircraft in AVUM, AVIM or Depot.** Commanders and facility managers will not issue aircraft until they are in compliance with this message.

(2) **Aircraft at Contractor Facility.** N/A.

c. **Aircraft in Transit.**

(1) **Surface/Air Shipment.** Same as paragraph 1.a.

\*This TB supersedes USAAMCOM Aviation Safety Action Message (ASAM), 121945Z, JUL 01, OH-58-01-ASAM-04.

(2) **Ferry Status.** Same as paragraph 1.a.

d. **Maintenance Trainers (Category A and B).** Same as paragraph 1.a.

e. **Component/Parts in Stock at All Levels (Depot and Others) Including War Reserves.** Upon receipt of the subject message/TB, depot and materiel activity commanders will ensure the material condition tags of all items in all condition codes listed in paragraphs 6 and 7 are annotated to read: "OH-58-01-ASAM-04 (TB 1-2840-241-20-12) Inspection of the T63-A-720 Pressure Probe Not Complied With."

(1) **Wholesale Stock** – Report receipt of the subject message/TB IAW paragraph 14.b.(1) NLT 18 July 2001. Upon receipt of the subject message/TB, depot and materiel activity commanders will ensure all items in condition codes //A//, //B//, //C//, //D//, and //E//, listed in paragraphs 6 and 7, are placed in condition code //J// and tagged with a suspended tag/label -- material, DD Form 1575/1575-1. Do not remove original condition tags. Report compliance with the subject message/TB IAW paragraph 14.b.(2) NLT 25 July 2001.

(2) **Retail Stock** – Report receipt of the subject/TB IAW paragraph 14.c.(1) NLT 18 July 2001. Upon receipt of the subject message/TB, commanders and facility managers maintaining retail stock at installation level and below shall contact the supported aviation unit to perform the procedures required IAW paragraphs 8 and 9 on suspect materiel. Dispose of discrepant materiel IAW paragraph 10. Report compliance with the subject message/TB IAW paragraph 14.c.(2) NLT 25 July 2001.

f. **Components/Parts in Work (Depot Level and Others).** Depot and other maintenance activity commanders will ensure items listed in paragraphs 6 and 7 are not issued until they are in compliance with the subject message/TB.

2. **Task/Inspection Suspense Date.** Complete the inspection IAW paragraph 8 within the next 100 flight hours but NLT 28 December 2001 and report IAW paragraph 14.a.(2) NLT 31 December 2001.

3. **Reporting Compliance Suspense Date.** Report compliance IAW paragraph 14.a.(1) NLT 1 August 2001.

4. **Summary of the Problem.**

a. **Background.** Rolls Royce has issued an alert commercial engine bulletin stating that a pressure probe was found without sufficient amount of braze material at the exposed end of the tube/elbow interface. The lack of sufficient braze material allowed the inner tube to dislodge itself from the elbow and travel downstream into the turbine assembly, causing a sudden stoppage during an engine shutdown.

b. **For Manpower/Downtime and Funding Impacts** see paragraph 12.

c. **The purpose of this TB is to:** Require a one time inspection of pressure probe elbows to ensure adequate braze coverage.

5. **End Items to be inspected.** All OH-58A/C and H-6 aircraft with the T63-A-720 or 250-C20B engine installed..

6. **Assembly Components to be Inspected.**

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
T63-A-720 Engine	(73342) 6887191	2840-01-013-1339
250-C20B	ALL	N/A

**7. Parts to be Inspected.**

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Pressure Probe Elbow	6850921	4730-00-940-7345
Pressure Probe Elbow	23073525	4730-01-486-1050

**8. Inspection Procedures.**

- a. Disconnect the compressor bleed valve and PC control air tubes at the diffuser scroll pressure probe elbows.
- b. Remove the pressure probe elbows from the diffuser scroll.
- c. Using a 10X magnifying glass, inspect the exposed braze joint between the elbow and inner tube. The braze material must be visible around the entire 360 degree interface, braze uniformity is not a requirement.

**NOTE**

Drawings of the part/area to be inspected can be viewed at "<http://www.redstone.army.mil/sof/>". Open the web site and choose "list of recent safety messages". Choose "suppl info (PDF)" for subject message. For assistance contact the safety POC in paragraph 16.e.(1).

**NOTE**

For informational purposes, Rolls Royce has released a new part number, 23073525, which incorporates design changes to improve the brazing process and is not affected by this message. To date, none of the 23073525 elbows have been procured.

- (1) If the exposed braze joint is visible around the entire 360 degree interface, the inspection is complete. Reinstall IAW paragraph 9.b..
- (2) If the exposed braze joint is not visible around the entire 360 degree interface, proceed to paragraph 9.a..

**9. Correction Procedures.**

- a. Pressure probe elbows with inadequate braze material shall be scrapped and replaced with serviceable parts IAW paragraph 9.b..
- b. Pressure probe elbows with acceptable braze material will be reinstalled as follows.
  - (1) Apply anti-seize compound lightly to the pressure probe elbow threads and install the elbows with new packing into the scroll.
  - (2) Attach the compressor bleed valve and PC control air tubes to the pressure probe elbows, tighten coupling nuts to 80-120 in. lb.
  - (3) Tighten elbow jam nuts to 55-80 in. lb. after final tube alignment and secure with lockwire.

**10. Supply/Parts and Disposition.**

- a. **Parts Required.** Items cited in paragraph 7 may be required to replace defective items.
- b. **Requisitioning Instructions.** Requisition replacement parts using normal supply procedures. All requisitions shall use project code (cc 57--59) "X1E" (X-RAY ONE ECHO).

**NOTE**

Project code "X1E", "X-RAY-ONE-ECHO" is required to track and establish a data base of stock fund expenditures incurred by the field as a result of message actions.

**c. Bulk and Consumable Materials.**

NOMENCLATURE	PART NUMBER	NATIONAL STOCK NUMBER
Anti-seize compound, never seize NS 165	N/A	8030-00-105-0270
Lockwire	MS20995C20	9505-00-596-5101
O-ring	M83248/1-904	5331-00-020-0203

**d. Disposition.** Demilitarize/mutilate IAW TM 1--1500--328--23 any part/component which does not meet inspection criteria.

**e. Disposition of Hazardous Material.** In accordance with Environmental Protection Agency directives as implemented by your servicing environmental coordinator (AR 200-1).

**11. Special Tools, Jigs and Fixtures Required.** N/A.

**12. Application.**

**a. Category of Maintenance.** AVUM. Aircraft downtime will be charged to AVUM maintenance. Report aircraft non-mission capable maintenance (NMCM) while undergoing inspection and correction IAW the subject message/TB.

**b. Estimated Time Required.**

- (1) Total of 1.0 man-hours using 1 person to remove, inspect, and replace the pressure probe.
- (2) Total of 1.0 hours downtime for one end item.

**c. Estimated Cost Impact to the Field.**

NOMENCLATURE	P/N	NSN	QTY.	COST EA.	TOTAL \$
Pressure Probe Elbow	23073525	4730-01-486-1050	1	\$153.00	\$153.00

Total Cost per Aircraft = \$153.00

**d. TB/MWOs to be Applied prior to or concurrently with this Inspection.** N/A.

**e. Publications which Require Change as a Result of this ASAM message/TB.** N/A.

**13. References.**

- a. DA PAM 738--751, 15 MAR 99.
- b. TM 55--2840--241--23.
- c. TM 1--1500--328--23.

#### 14. Recording and Reporting Requirements.

##### a. Aircraft.

**(1) Reporting Compliance Suspense Date (Aircraft).** Upon entering requirements of subject message/TB on DA Form 2408-13-1 for all effected aircraft. Commanders will forward a priority message, datafax or E-mail to CDR, AMCOM, ATTN: AMSAM-SF-A (SOF Compliance Officer), Redstone Arsenal, AL 35898-5000, IAW AR 95-1, NLT date specified in paragraph 3. Datafax number is DSN 897-2111 or (256) 313-2111. E-mail address is <safeadm@redstone.army.mil>. The report will cite the subject message/TB number, date of entry on DA Form 2408-13-1, the aircraft MDS, and serial numbers of aircraft in numerical order.

**(2) Task/Inspection Reporting Suspense Date (Aircraft).** Upon completion of inspection, Commanders will forward a priority message to the logistical POC listed in paragraph 16.b.. The report will cite the subject message/TB number, date of inspection, aircraft serial number, aircraft and component hours, and the results of the inspection. Inspection and reports will be completed NLT date specified in paragraph 2.

##### b. Wholesale Spare Parts/assemblies.

**(1) Reporting Message Receipt.** Depot and materiel activity commanders will report receipt of subject message/TB by E-mail or datafax to the wholesale materiel (spares) point of contact listed in paragraph 16.c. NLT date specified in paragraph 1.e.(1). Provide local point of contact.

**(2) Task/Inspection Reporting Suspense.** Depot and materiel activity commanders will provide a DD Form 1225 to the wholesale materiel POC (spares) listed in paragraph 16.c.(1) NLT date specified in paragraph 1.e.(1). Provide estimate of the cost reimbursable funding required to move serviceable items on hand listed in paragraphs 6 and 7 to a work area, unpack the materiel, repack the materiel after inspection by AMCOM inspectors, and to return the materiel to storage, as appropriate. Report, by original serviceable condition code, the quantity of materiel placed in condition code //J//. Report by E-mail or datafax and provide local point of contact.

##### c. Retail Spare Parts/assemblies.

**(1) Reporting Message Receipt.** Commanders and facility managers will report receipt of subject message/TB by E-mail or datafax to the logistical point of contact listed in paragraph 16.b. NLT date specified in paragraph 1.e.(2). Provide local point of contact.

**(2) Task/Inspection Reporting Suspense.** Commanders and facility managers will report inspection results to the logistical POC in paragraph 16.b. NLT date specified in paragraph 1.e.(2). Report the quantity inspected by condition code and the resulting condition code. Report by E-mail or datafax and provide local point of contact.

**d. The Following Forms are Applicable and are to be Completed in Accordance with DA Pamphlet 738-751, dated 15 Mar 1999:**

#### NOTE

Unit Level Logistics System--Aviation (ULLS-A) users will use applicable electronic "E" forms.

**(1)** DA Form 2408-5-1, Equipment Modification Record (Engine).

**(2)** DA Form 2408-13, Aircraft Status Information Record.

**(3)** DA Form 2408-13-1, Aircraft Inspection and Maintenance Record.

**(4)** DD Form 1574/DD Form 1574-1, Serviceable Tag/Label Materiel (color yellow). Annotate remarks block with "Inspected serviceable IAW OH-58-01-ASAM-04, TB 1-2840-241-20-21".

**(5)** DD Form 1575/DD Form 1575-1, Suspended Tag/Label Materiel (color brown). Annotate remarks block with "Suspended IAW OH-58-01-ASAM-04, TB 1-2840-241-20-21".

(6) DD Form 1577/DD Form 1577-11, Unserviceable (condemned) Tag/Label Materiel (color red). Annotate remarks block with "Condemned IAW OH-58-01-ASAM-04, TB 1-2840-241-20-21 AND mutilated IAW TM 1-1500-328-23".

**15. Weight and Balance.** N/A.

**16. Points of Contact.**

a. Technical point of contact for this TB is Mr. Gary Kellogg, AMSAM--RD--AE--P--E, DSN 897-3882 or (256) 313-3882; Datafax is (256) 313-4961. E-mail is <gary.kellogg@redstone.army.mil>.

b. Logistical points of contact are:

(1) OH-58A/C - Ms. Sue Lewis, AMSAM-DSA-AS-ASH-L, DSN 645-8249 or (256) 955-8249; Datafax is (256) 955-9536; E-mail is <susan.lewis@redstone.army.mil>.

(2) H-6 --

c. Wholesale Materiel points of contact are:

(1) Spares - is Mr. Greg Sprouse, DSCR-XBC, DSN 695-5310 or (804) 279-5310. E-mail is <gsprouse@dscr.dla.mil>.

(2) Engines - Mr. Eddie Allen, AMSAM-MMC-AV--SA, DSN 897-1526 or (256) 313-1536. E-mail is <eddie.allen@redstone.army.mil>

d. Forms and records point of contact for this TB is Ms. Ann Waldeck, AMSAM-MMC-MA-NM. DSN 746-5564 or (256) 876-5564; Datafax is DSN 746-4904 or (256) 876-4904; E-mail is <ann.waldeck@redstone.army.mil>.

e. Safety points of contact are;

(1) Primary -- Mr. Harry Trumbull (SAIC), AMSAM-SF--A, DSN 897-2095 or (256) 313-2095, Datafax is DSN 897-2111 or (256) 313-2111. E-mail is <harry.trumbull@redstone.army.mil>.

(2) Alternate - Mr. Ron Price, AMSAM-SF--A, DSN 788-8636 or (256) 842-8636; Datafax is (256) 313-2111; E-mail is <ron.price@redstone.army.mil>.

f. Foreign Military Sales (FMS) recipients requiring clarification of action advised by this TB should contact -

(1) Primary -- Mr. Ronnie W. Sammons, AMSAM-SA-CS-NF, DSN 897-6656 or (256) 313-6656. Datafax is DSN 897-6630 or (256) 313-6630. E-mail is <ronnie.sammons@redstone.army.mil>.

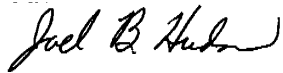
(2) Alternate -- Mr. Paul W. Tarr, AMSAM-SA-CS-NF, DSN 897-6861 or (256) 313-6861. Datafax is DSN 897-6630 or (256) 313-6630. E-mail is <tarrpw@redstone.army.mil>.

g. After hours contact AMCOM Command Operations Center (COC) DSN 897-2066/2067 or commercial (256) 313-2066/2067.

**17. Reporting of Errors and Recommending Improvements.** You can improve this TB. If you find any mistakes or if you know of a way to improve these procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Commander, US Army Aviation and Missile Command, ATTN: AMSAM-MMC-MA-NP, Redstone Arsenal, Alabama 35898-5230. A reply will be furnished to you. You may also send in your comments electronically to our E-mail address at <2028@redstone.army.mil>, or by datafax at DSN 788-6546 or commercial (256) 842-6546. Instructions for sending a DA Form 2028 by E-mail may be found at the back of most Technical Manuals.

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